ASUS SpaceLink Access Point

WL-300

Quick Start Guide

Copyright Information

Product Name:	ASUS SpaceLink Access Point (WL-300)
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1. Introduction

Thank you for choosing the ASUS SpaceLink Access Point, a member of ASUS' SpaceLink wireless infrastructure family. The ASUS SpaceLink Access Point complies with the IEEE 802.11b wireless standard to provide wireless mobile clients with network connectivity at data rates of up to 11 Mbps. The stand-alone ASUS SpaceLink Access Point connects to a small Ethernet network to provide wireless access for wireless mobile clients.

System Requirements

To begin using the ASUS SpaceLink Access Point, you must have the following minimum requirements:

• An Ethernet (10Base-T or 10/100Base-TX) LAN switch or hub

• At least one 802.11b wireless adapter for a wireless mobile client

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Note: The ASUS SpaceLink Access Point only supports 10Base-T, therefore it cannot be connected to pure 100Base-TX networks. The network must be either 10-Base or 10/100Base-TX.


Wireless Operation

The ASUS SpaceLink Access Point supports three modes of operation:

• **Access Point:** The Access Point operates as a stand-alone device to provide network access to wireless mobile clients.

• **Access Point Client:** The Access Point partners with another Access Point to provide network access to wireless mobile clients.

• **Wireless Bridge:** The Access Point communicates only with other Access Points that are set to Wireless Bridge Mode. (Access Points set to Wireless Bridge mode cannot support wireless mobile clients.)

By default, the SpaceLink Access Point operates in Access Point mode.

Access Point LED Indicators

There are three LEDs on the front of the ASUS SpaceLink Access Point, as shown here.

	Power (Amber)
	Air (Green)
	Link (Green)
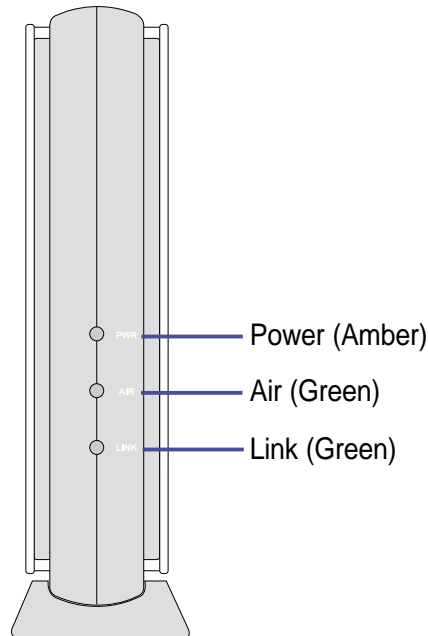
Power LED

The Power LED is the top LED and turns amber when the power adapter is connected and the power switch is turned ON.

Air LED

The Air LED is the middle LED and turns green when the wireless function is working.

Link LED

The Link LED is the bottom LED and turns green when the Access Point has a physical connection to the Ethernet network.

Power Requirements

The ASUS SpaceLink Access Point requires power from an external power supply. The ASUS SpaceLink Access Point ships with a UL listed, Class 2 power supply (5V, 1A).

2. Installation

This chapter describes the installation procedure for the ASUS SpaceLink Access Point and includes a description of the LEDs found on the unit.

Installation Procedure

Follow these steps to install the ASUS SpaceLink Access Point.

1. Determine the best location for the ASUS SpaceLink Access Point. Keep in mind the following considerations:

    *   The length of the Ethernet cable that connects the Access Point to the network must not exceed 100 meters.

    *   For standard placement, try to place the Access Point on a flat, sturdy surface as far from the ground as possible, such as on top of a desk or bookcase, keeping clear of metal obstructions and away from direct sunlight.

    *   For external antenna mounting, install the external antennas so that they are clear of obstructions; refer to the documentation that came with the antennas for mounting and installation instructions.

    *   Try to centrally locate the Access Point or its antennas so that it will provide coverage to all of the mobile devices in the area.

    *   Use only the power supply that came with this unit. Other power supplies may fit but the voltage and power may not be compatible.

> **It is the responsibility of the installer and users of the ASUS SpaceLink Access Point to guarantee that the antenna is operated at least 20 centimeters from any person. This is necessary to insure that the product is operated in accordance with the RF Guidelines for Human Exposure which have been adopted by the Federal Communications Commission.**

2. Place the Access Point in the desired location. Wall mounting is also possible for the Access Point. Refer to the section entitled "Wall Mounting Option" on the next page for details.

3. Attach one end of an RJ-45 Ethernet cable to the Access Point and attach the other end to the RJ-45 10Base-T port of a network hub, switch, router, or patch panel (possibly on a wall).

> **The ASUS SpaceLink Access Point does not support 100Base-TX; it only supports 10Base-T. Hubs or switches that supports both 10Base-T and 100Base-TX may be used.**

4. Attach one end of the AC power adapter, included in the product package, to the back of the Access Point and the other end to a power outlet.
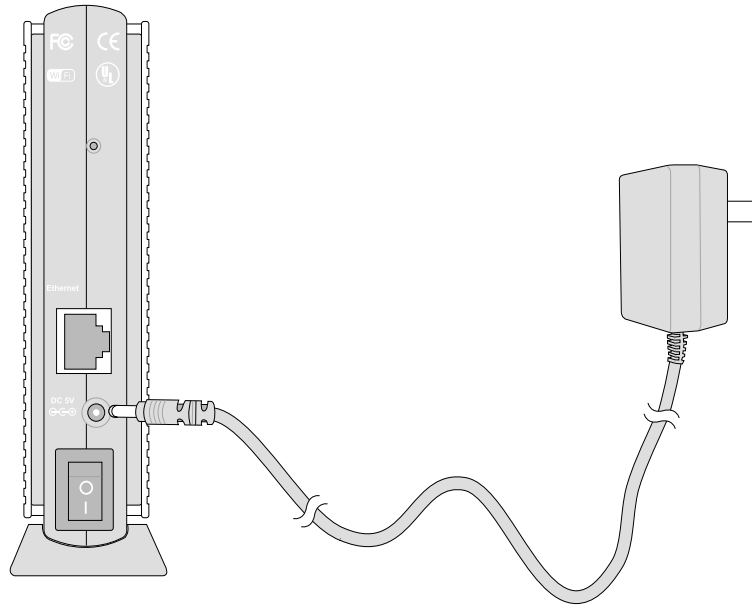
Note: Use the Access Point only with the power adapter supplied by ASUS in the product package. Using another power supply may damage the Access Point.

The Power LED on the front of the Access Point will light up when the unit is powered ON. In addition, the green Link LED will turn ON to indicate that the Access Point has a physical Ethernet network connection.

Wall Mounting Option

Out of the box, the ASUS SpaceLink Access Point is designed to sit on a raised flat surface like a file cabinet or book shelf. The unit may also be converted for mounting to a wall or ceiling.

Follow these steps to mount the Access Point to a wall:

1. Remove the base by pressing the tab and sliding the base.
2. Remove the side cover to expose the mounting hooks.
3. Locate the screws provided with the Access Point.
4. Mark two holes in a flat surface using the provided hole template.
5. Tighten the two provided screws until only 1/4" is showing.
6. Latch the Access Point onto the two screws.

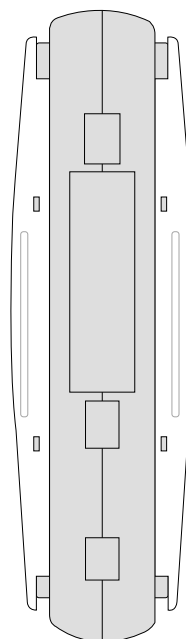**Note: Readjust the screws if you cannot latch the Access Point onto the screws or if it is too loose.**
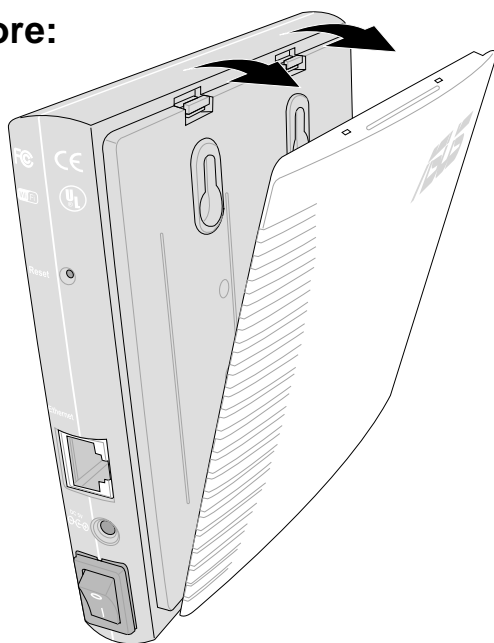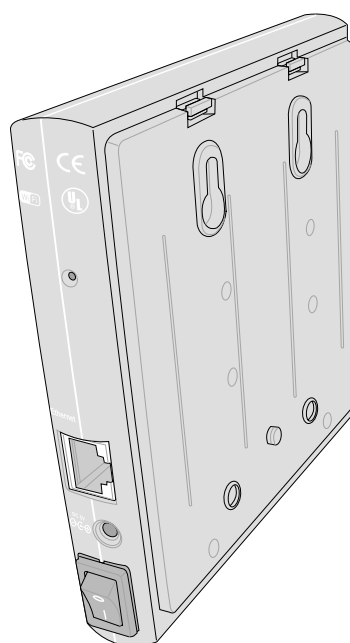
Chapter 2 - Installation

Step 1
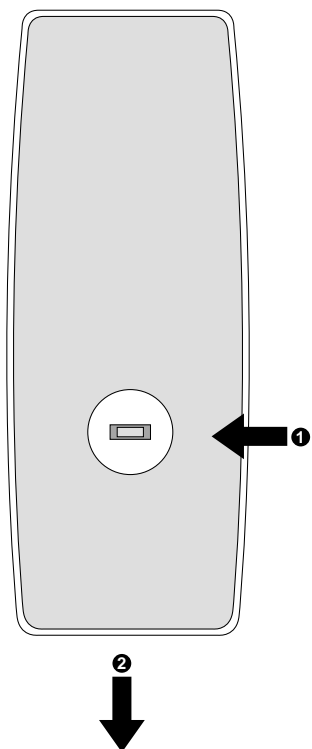
Before: **After:**

Step 2

**Before:**   **After:**

Note: Mounting brackets are provided for you to hang the Access Point on an office partition or office ceiling.

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3. Access Point Manager

This chapter describes how to access the ASUS Access Point Manager, which is used to configure ASUS SpaceLink Access Points.

Installing the Access Point Manager

Follow these steps to install the ASUS Access Point Manager in Windows:
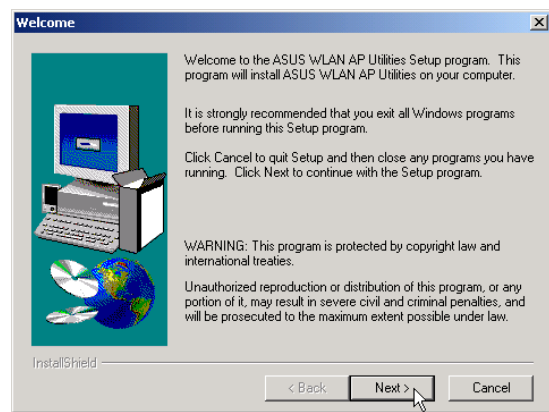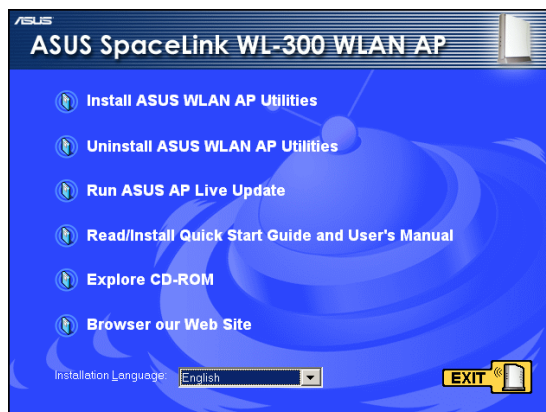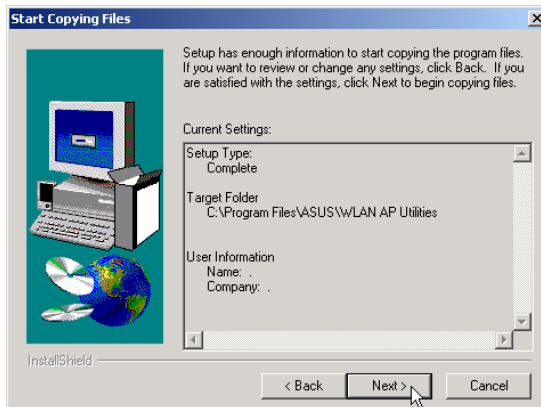

1. Insert the support CD and click on **Install ASUS WLAN AP Utilities**.

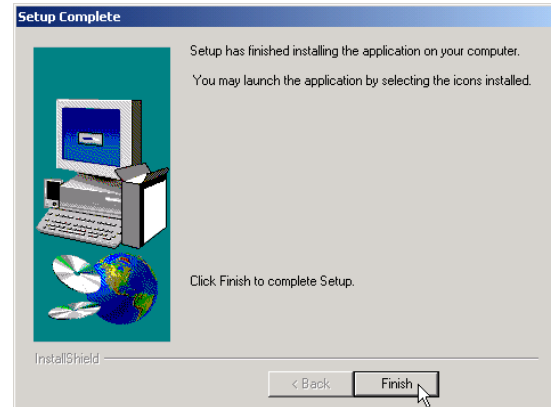
2. Click **Next** after reading the Welcome message.
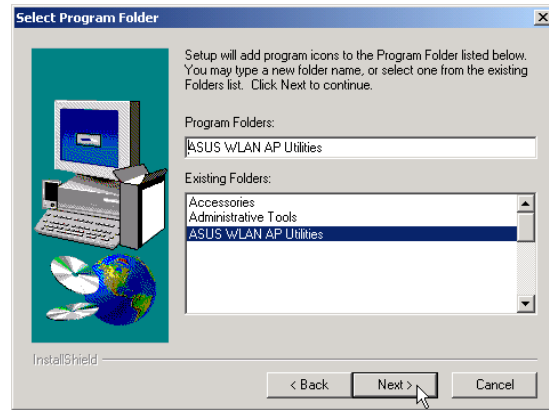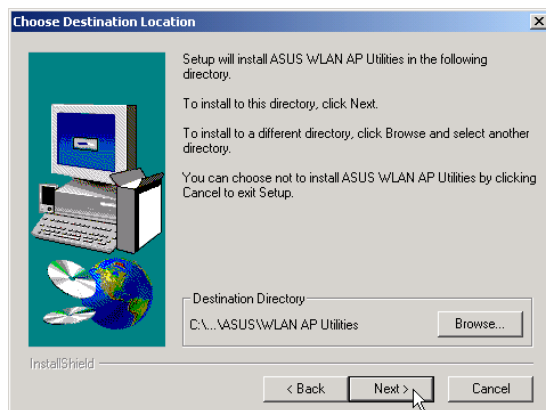
3. Click **Next** to accept the default directory or browse to another location.

4. Click **Next** to use the default program folder or enter another folder.
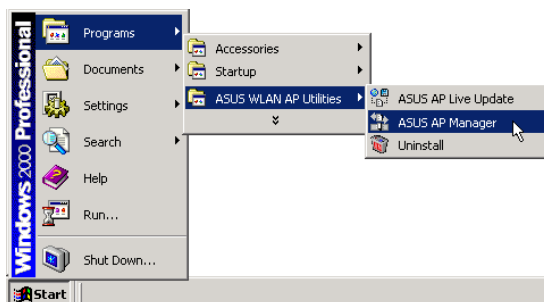
Installing the Access Point Manager (Cont.)

5. Click **Next** after reading the set-tings.

6. When setup is complete, click **Fin-ish** to exit the setup wizard.

7. Launch **ASUS AP Manager** through "Start | Programs".

Connecting to SpaceLink Access Points

Wired Ethernet Cable

Besides using a network hub, you can also connect a LAN cable from your computer's network card to the Access Point using either a straight or crossover cable because the ASUS SpaceLink Access Point RJ-45 port has auto-crossover capability.

Wireless Connection

If you are using a Notebook PC with a wireless adapter, you can connect to the ASUS SpaceLink Access Point using the ASUS Access Point Manager without a wired Ethernet connection.

Across Gateways

The ASUS Access Point Manager can connect to any ASUS SpaceLink Access Point using its IP address even across gateways. The gateway settings of the ASUS SpaceLink Access Point and your computer must be set correctly according to the network environment.

# Searching for SpaceLink Access Points

The computer running the ASUS Access Point Manager must be on the same IP subnet as the ASUS SpaceLink Access Point.

1. When you open the ASUS Access Point Manager, it automatically searches for ASUS SpaceLink Access Points on the same subnet. You will not be able to see or configure settings until the IP address is changed so that the subnet matches that of your computer running the ASUS Access Point Manager.
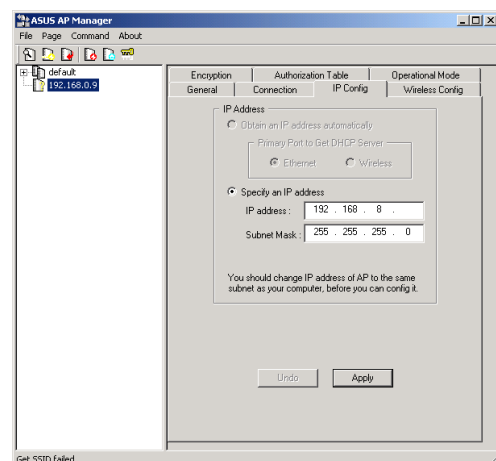
Searching for SpaceLink Access Points (Cont.)

2. Click the IP Config tab and change the IP address and subnet mask. By default, the ASUS Access Point Manager shows correct settings of ASUS SpaceLink Access Points on the same subnet. For example, if your ASUS Access Point Manager software is running on IP address 192.168.8.8 subnet mask 255.255.255.0, you can enter IP address 192.168.8.9 (assuming that it is not already assigned to another network device), subnet mask 255.255.255.0. Usually, you should use the same subnet mask as your computer.
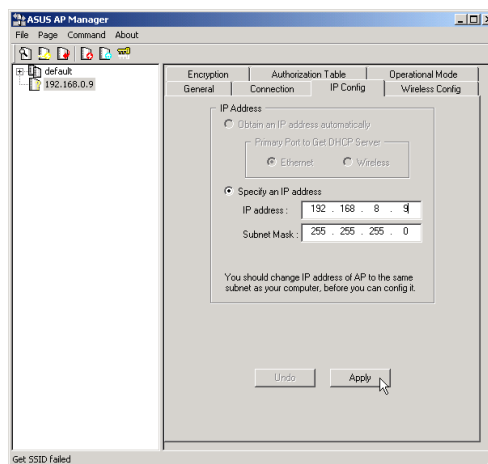
Note: In some situations, the ASUS Access Point Manager cannot retrieve the MAC address of your ASUS SpaceLink Access Point. In this case, you should key it in manually. You can see the MAC address on the sticker after removing the base of the ASUS SpaceLink Access Point.

3. Enter the default password **asus** (lower case) and click **OK**.

   The password is required to make setting changes.
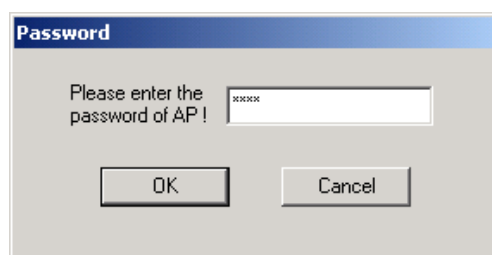
Note: If you cannot find any ASUS SpaceLink Access Points due to a problem in the IP settings, push and hold the "Reset to Defaults" over five seconds to restore factory default settings.

When using the ASUS Access Point manager through a wireless connection, set your IP to 192.168.39.X (X being any number 1-254 that is not assigned to another device) if you still cannot connect to any ASUS SpaceLink Access Points after using "Reset to Defaults".